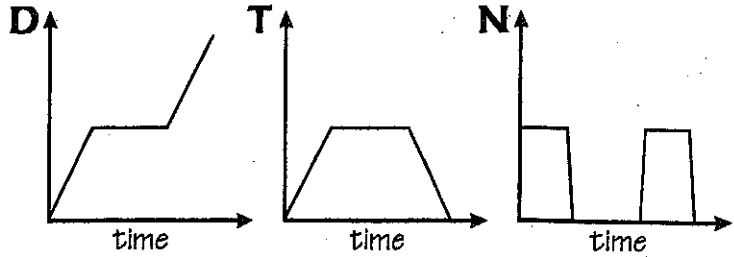


# What Kind of Monkey Can Fly?

Sketch two graphs for the situation using the two dependent variables given. Match each graph to one of the answer choices. Write the letter of your choice in each box containing the exercise number.

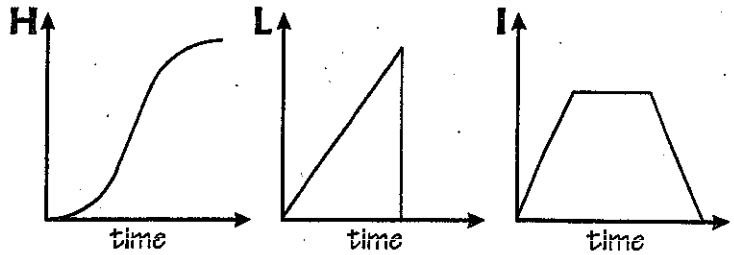
Erica walked from home to a friend's house, watched TV for awhile, then walked back home.

1. Let  $y$  = Erica's distance from home
2. Let  $y$  = Erica's speed



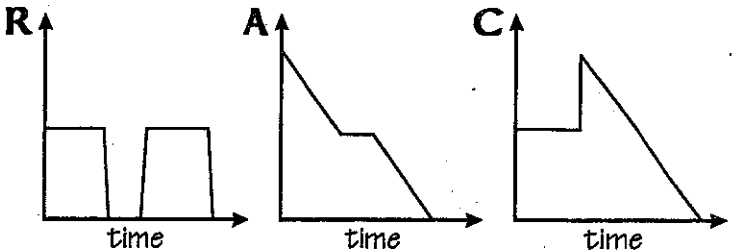
**As our subway train leaves Station A, it accelerates to top speed, then maintains this speed until it begins to slow down and finally stops at Station B.**

- 3.** Let  $y$  = distance from Station A  
**4.** Let  $y$  = speed of the train



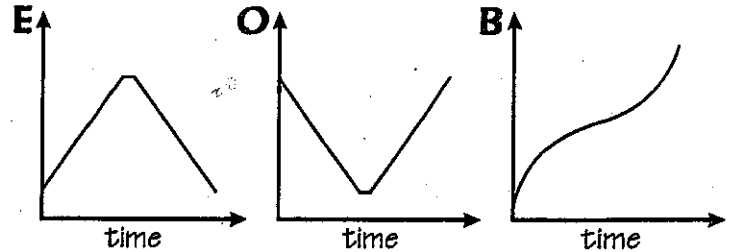
A backpacker hikes toward a campsite at a steady rate until he stops for awhile to rest. Then he continues at the original rate until he stops at the campsite.

5. Let  $y$  = distance from the campsite  
6. Let  $y$  = speed of the backpacker



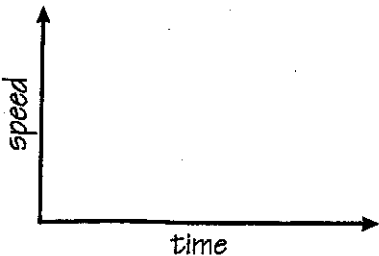
Our roller coaster goes slower and slower as it rolls up a hill. Then it goes faster and faster as we roll down the other side.

- 7.** Let  $y$  = distance traveled
- 8.** Let  $y$  = speed of the coaster

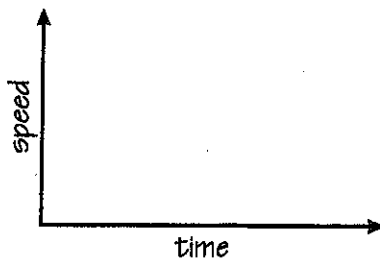
[illegible]

**CHALLENGE:** Sketch a graph for each situation.

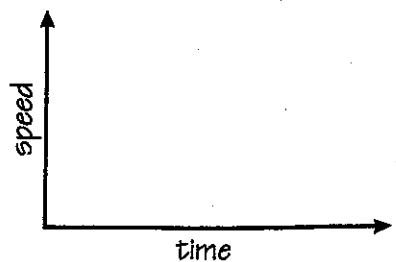
- 1** Tonka walked to school at a steady rate, then realized he was late and ran the rest of the way at top speed.



- 2** Kia jumped off a high cliff, fell freely for awhile, then opened her parachute and floated to the ground.



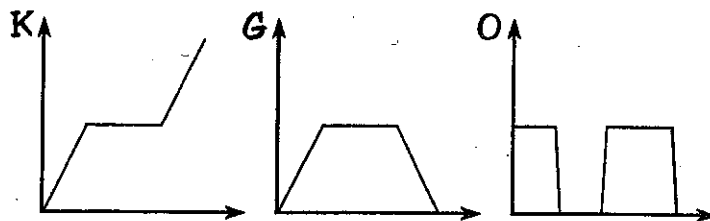
- 3** Spike hit the ball deep into right field, then ran around the bases as fast as he could to score a home run.



# When Should You Stop at Green and Go at Red?

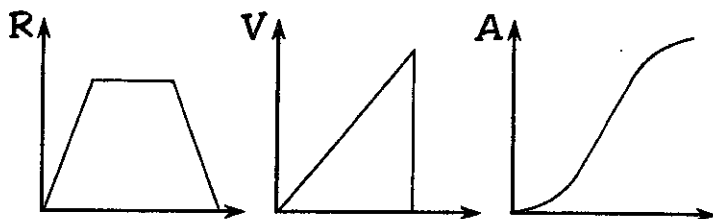
Choose the best graph for the given situation. Copy the graph and label the axes with the variables given in parentheses (the first variable goes on the y-axis; the second variable on the x-axis). Then write the letter of your choice in each box containing the exercise number.

- 1 Karina walked from home to the library, did some homework, then walked back. (distance from home/time)



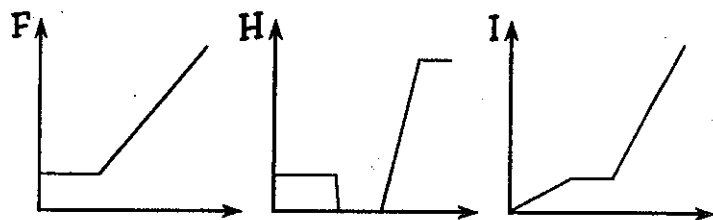
- 2 Karina walked from home to the library, did some homework, then walked back. (speed/time)

- 3 When jogging, Dash starts slowly, builds up to a comfortable speed, then slows down near the end. (distance/time)



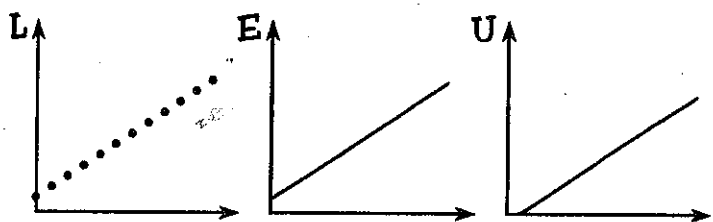
- 4 When jogging, Dash starts slowly, builds up to a comfortable speed, then slows down near the end. (speed/time)

- 5 Mr. Mustard walked to the subway station, waited a few minutes, then got on a train. (distance/time)



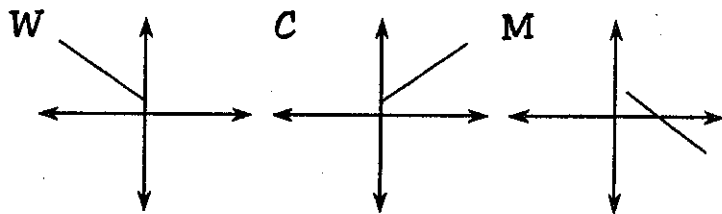
- 6 Mr. Mustard walked to the subway station, waited a few minutes, then got on a train. (speed/time)

- 7 Kevin carried a box of school yearbooks from the office to his classroom. (weight of box/number of books in box)

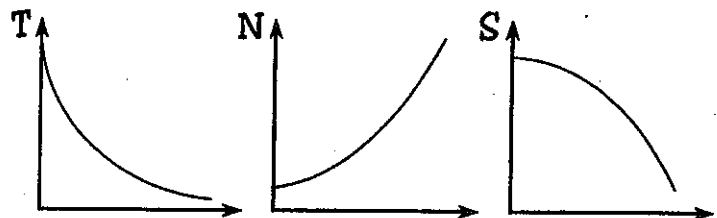


- 8 Every week the plant in our classroom is taller than the week before. (height of plant/number of weeks)

- 9 From the ocean surface, a submarine dives steadily deeper until leveling off. (pressure on submarine/elevation)
- 10 An airliner takes off and climbs steadily higher until leveling off. (temperature outside airliner/elevation)



- 11 Each month the baby hippo weighed twice as much as it had the month before. (weight/time)



- 12 Each hour there was half as much medication in the blood as there had been an hour before. (medication/time)

9	6	8	11	8	3	12	5	11	1	9	3	12	8	4	10	8	7	2	11
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